

Abstracts

Intrinsic limitations of GaAs device cooling for microwave low noise applications

J.M. Miranda Pantoja, J.L. Sebastian and S. Munoz. "Intrinsic limitations of GaAs device cooling for microwave low noise applications." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1687-1690.

A simulation at microscopic level of the microwave noise temperature associated to a GaAs resistance at different physical temperatures and far from equilibrium conditions has been performed. The dependence of the noise temperature on the electric field, doping level and physical temperature has been investigated.

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